

Receipt date: 09/04/2008

OK TO ENTER: /JW/ (09/05/2008)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:
Kundu et al.

Atty. Docket No.: JP920030182US1

Serial No.: 10/727,885

Group Art Unit: 2151

Filed: December 4, 2003

Examiner: Walsh, John B.

Title (As Amended): SYSTEM AND METHOD FOR DOWNLOADING A
DOCUMENT FROM A SERVER COMPUTER TO A CLIENT
COMPUTER

Mail Stop After Final Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT UNDER 37 C.F.R. §1.312

Sir:

Prior to payment of the Issue Fee, please amend the above-identified patent
application as follows:

IN THE TITLE:

Please amend the title as follows:

LAZY DOCUMENT AND DATA VALIDATION SYSTEM AND METHOD
FOR DOWNLOADING A DOCUMENT FROM A SERVER COMPUTER TO A
CLIENT COMPUTER

IN THE SPECIFICATION:

Please amend page 1, lines 30-35 of the specification as follows:

~~Client side scripts are repackaged on the server side to be sent to the client with the corresponding data element. They are packaged to appear no earlier than the program location of a first corresponding data element. The document is rendered as it arrives at the client. In parallel, execution of the scripts to validate corresponding data elements occurs no sooner than rendering of the data elements. Validation of the document is delayed until the document download (and validation) has been performed.~~

The invention provides a system and method for downloading a document from a server computer to a client computer. The system and method repackaged scripts in a document program at the server such that scripts are in a program location no earlier than the program location of a first corresponding data element. The method downloads the repackaged document program to the client. The method renders the repackaged document at the client as it arrives until complete. In parallel with the rendering step, the method schedules execution of the scripts by the client to validate corresponding data elements no sooner than the step of rendering. The method inputs user data for the document at the client as the step of rendering occurs.

IN THE ABSTRACT:

Please amend the abstract as follows:

~~Client side scripts are repackaged on the server side to be sent to the client with the corresponding data element. They are packaged to appear no earlier than the program location of a first corresponding data element. The document is rendered as it arrives at the client. In parallel, execution of the scripts to validate corresponding data elements occurs no sooner than rendering of the data elements. Validation of the document is delayed until the document download (and validation) has been performed.~~

A system and method downloads a document from a server computer to a client computer. The method and system comprises the steps of repackaging scripts in a document program at the server such that scripts are in a program location no earlier than the program location of a first corresponding data element and downloading the repackaged document program to the client. The method renders rendering the repackaged document at the client as it arrives until complete, and in parallel with the rendering step, schedules execution of the scripts by the client to validate corresponding data elements no sooner than the step of rendering. The method inputs user data for the document at the client as the step of rendering occurs.

IN THE CLAIMS:

The claims are as follows:

1. (Previously Presented) A method for downloading a document from a server computer to a client computer, said method comprising the steps of:
 - repackaging scripts in a document program at the server such that scripts are in a program location no earlier than the program location of a first corresponding data element;
 - downloading the repackaged document program to said client;
 - rendering said repackaged document at said client as it arrives until complete;
 - in parallel with said rendering step, scheduling execution of said scripts by said client to validate corresponding data elements no sooner than said step of rendering; and
 - inputting user data for said document at said client as said step of rendering occurs.
2. (Previously Presented) The method of claim 1, further comprising validating the rendered document once completely rendered.
3. (Cancelled).
4. (Previously Presented) The method of claim 1, further comprising said client validating the input user data.

5. (Previously Presented) The method of claim 1, wherein said repackaging step packages all scripts required by the first data element whose validation requires those scripts.
6. (Previously Presented) The method of claim 1, wherein said scheduling step executes a script as it is downloaded from said server.
7. (Previously Presented) The method of claim 1, wherein said scheduling step executes a script once all data elements relying on said script have been downloaded from said server.
8. (Previously Presented) A method for downloading a document from a server computer to a client computer, said method comprising the steps of:
 - repackaging scripts in a document program at the server such that scripts are in a program location no earlier than the program location of a first corresponding data element;
 - downloading the repackaged document program to said client;
 - rendering said repackaged document at said client as it arrives until complete;
 - and
 - in parallel with said rendering step, scheduling execution of said scripts by said client to validate corresponding data elements no sooner than said step of rendering,

wherein said scheduling step executes a script for an n^{th} data element as an $n+1^{\text{th}}$ data element is being downloaded.

9. (Previously Presented) A computer system for downloading a document comprising:

a server computer operable to repack a document program at the server such that scripts are in a program location no earlier than a first corresponding data element;

a client computer operable to download the repackaged document program, render said document as it arrives until complete, and, in parallel with the rendering, schedule execution of said scripts to validate corresponding data elements no sooner than rendering; and

a user data interface to said client computer for data input to said document as rendering occurs.

10. (Previously Presented) The computer system of claim 9, wherein said client computer validates said rendered document once completely rendered.

11. (Cancelled).

12. (Previously Presented) The computer system of claim 9, wherein said client computer validates said input user data.

13. (Previously Presented) The computer system of claim 9, wherein said server computer repackages all scripts required by the first data element whose validation requires those scripts.

14. (Previously Presented) The computer system of claim 9, wherein said client computer schedules execution of a script as it is downloaded from said server computer.

15. (Previously Presented) The computer system of claim 9, wherein said client computer schedules execution of a script once all data elements relying on said script have been downloaded from said server computer.

16. (Previously Presented) A computer system for downloading a document comprising:

a server computer operable to repackage a document program at the server such that scripts are in a program location no earlier than a first corresponding data element; and

a client computer operable to download the repackaged document program, render said document as it arrives until complete, and, in parallel with the rendering, schedule execution of said scripts to validate corresponding data elements no sooner than rendering,

wherein said client computer schedules execution of a script for an n^{th} data element as an $n+1^{\text{th}}$ data element is being downloaded from said server computer.

17. (Previously Presented) A client computer for downloading from a server computer a repackaged document having scripts that are in a program location no earlier than the location of a first corresponding data element, said client computer being operable to render said document as it arrives until complete, and, in parallel with the rendering, schedule execution of said scripts to validate corresponding data elements no earlier than rendering, and

a user data interface for data input to said document as rendering occurs.

18. (Previously Presented) The client computer of claim 17, wherein said rendered document is validated once completely rendered.

19. (Cancelled).

20. (Previously Presented) The client computer of claim 17, wherein said input user data is validated.

21. (Previously Presented) The client computer of claim 17, wherein execution of a script is scheduled as it is downloaded from said server computer.

22. (Previously Presented) The client computer of claim 17, wherein execution of a script is scheduled once all data elements relying on said script have been downloaded from said server computer.

23. (Previously Presented) A client computer for downloading from a server computer a repackaged document having scripts that are in a program location no earlier than the location of a first corresponding data element, said client computer being operable to render said document as it arrives until complete, and, in parallel with the rendering, schedule execution of said scripts to validate corresponding data elements no earlier than rendering,

wherein execution of a script is scheduled for an n^{th} data element as an $n+1^{\text{th}}$ data element is being downloaded from said server computer.

24-25. (Cancelled).

26. (Previously Presented) A computer program product comprising a computer program recorded on a storage medium, said program comprising:

computer program element means for repackaging a document program at a server computer such that scripts are in a program location no earlier than a location of a first corresponding data element;

computer program element means for downloading the repackaged document program to a client computer;

computer program element means for rendering said document at said client computer as it arrives until complete;

computer program element means for, in parallel with execution of said program element for said rendering, scheduling execution of said scripts by said client computer to validate corresponding data elements no sooner than rendering, and

computer program element means for inputting user data for said document at said client as said step of rendering occurs.

REMARKS

Applicants have revised the title, summary, and abstract to conform to the allowed claims in the application. No new matter is added.

Should the Examiner find the application to be other than in condition for allowance, the Examiner is requested to contact the undersigned at the local telephone number listed below to discuss any other changes deemed necessary. Please charge any deficiencies and credit any overpayments to Attorney's Deposit Account Number 09-0441.

Respectfully submitted,

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Dated: September 4, 2008

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